

## WEST Search History

DATE: Tuesday, August 12, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set

*DB=USPT; PLUR=NO; OP=ADJ*

L3	L2 and multi-frequency	8	L3
L2	L1 and underground	181	L2
L1	fault and rectif\$5	6970	L1

END OF SEARCH HISTORY

Benson  
URF

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	17	"5001430"	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/12 11:33
2	BRS	L2	7	"5210497"	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/12 11:33

Bphsor

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	500	"5978313" "4278931" "4321643" "4370610" "4415944" "4415850" "4438389" "4839598" "4896117" "5408176" "5465010" "5485299" "5714885" "5828801" "5856776" RE36037 "5914608" "6005996" "6127747" "6134032" "6186196" "5428295" "5600248" "5020134" "5206595" "5210498" "5638004" "5999389" "6154036" "6230109" "6249230" "4389694"	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 13:58
2	BRS	L2	83	11 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 14:03
3	BRS	L3	51	12 and fault	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 14:03

	Type	L #	Hits	Search Text	DBs	Time Stamp
4	BRS	L4	20	sheath adj fault	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 15:13
5	BRS	L5	284	324/529.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 15:28
6	BRS	L6	31	15 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 15:52
7	BRS	L7	831	324/522.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 15:52
8	BRS	L8	32	17 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:06

	Type	L #	Hits	Search Text	DBs	Time Stamp
9	BRS	L9	369	324/539.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:06
10	BRS	L10	164624	19 snf fault	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:07
11	BRS	L11	106	19 and fault	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:10
12	BRS	L12	11	111 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:26
13	BRS	L13	3	324/509.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:33

	Type	L #	Hits	Search Text	DBs	Time Stamp
14	BRS	L14	268	324/523.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:34
15	BRS	L15	16	114 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:39
16	BRS	L16	251	324/520.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:39
17	BRS	L17	15	116 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:41
18	BRS	L18	100	324/528.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:41

	Type	L #	Hits	Search Text	DBs	Time Stamp
19	BRS	L19	158	324/533.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:47
20	BRS	L20	18	119 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:48
21	BRS	L21	0	324/53.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:49
22	BRS	L22	153	324/534.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:49
23	BRS	L23	23	122 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:51

	Type	L #	Hits	Search Text	DBs	Time Stamp
24	BRS	L24	538	340/652.cccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:51
25	BRS	L25	116	124 and fault	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:52
26	BRS	L26	3	125 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:53
27	BRS	L27	1073	361/42.cccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:53
28	BRS	L28	26	127 and underground	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/08/11 16:53
29	BRS	L29	1	earth adj leakage adj signal	USPAT	2003/08/11 17:01

	Type	L #	Hits	Search Text	DBs	Time Stamp
30	BRS	L30	56	sheath near5 fault	USPAT	2003/08/11 17:01

10049277\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10049277 on August 04, 2003

Original Classifications

4 324/529  
2 307/9.1  
2 324/509  
2 324/522  
2 324/523  
2 324/533  
2 324/539  
2 361/48  
2 385/24

Cross-Reference Classifications

4 324/539  
3 324/522  
3 324/528  
3 324/529  
3 324/534  
3 340/652  
2 307/10.1  
2 307/112  
2 323/249  
2 323/302  
2 324/133  
2 324/326  
2 324/509  
2 324/520  
2 324/523  
2 324/67  
2 361/42  
2 361/47  
2 361/93.1

Combined Classifications

7 324/529  
6 324/539  
5 324/522  
4 324/509  
4 324/523  
3 324/520  
3 324/528  
3 324/533  
3 324/534  
3 340/652  
3 361/42

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2 307/10.1  
2 307/112  
2 307/9.1  
2 323/249  
2 323/302  
2 324/133  
2 324/326  
2 324/532  
2 324/535  
2 324/66  
2 324/67  
2 340/310.01  
2 340/650  
2 361/47  
2 361/48  
2 361/93.1  
2 385/24  
2 398/37  
2 455/67.7

10049277\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10049277 on August 04, 2003

7 324/529 (4 OR, 3 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/527 ..By applying a test signal  
324/528 ...Tracing test signal to fault location  
324/529 ....Using a magnetic field sensor

6 324/539 (2 OR, 4 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/537 .Of individual circuit component or element  
324/539 ..Multiconductor cable

5 324/522 (2 OR, 3 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/522 ..By voltage or current measuring

4 324/509 (2 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/509 .Of ground fault indication

4 324/523 (2 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/522 ..By voltage or current measuring  
324/523 ...Of an applied test signal

3 324/520 (1 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/520 ..By frequency sensitive or responsive

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detection

3 324/528 (0 OR, 3 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/527 ..By applying a test signal  
324/528 ...Tracing test signal to fault location

3 324/533 (2 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/527 ..By applying a test signal  
324/532 ...Using time measuring  
324/533 ....Of reflected test signal

3 324/534 (0 OR, 3 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .For fault location  
324/534 ..By reflection technique

3 340/652 (0 OR, 3 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/635 ..Condition of electrical apparatus  
340/652 ...Breaking of circuit continuity

3 361/42 (1 OR, 2 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/42 .Ground fault protection

2 307/10.1 (0 OR, 2 XR)  
Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
SYSTEMS  
307/9.1 VEHICLE MOUNTED SYSTEMS  
307/10.1 .Automobile

2 307/112 (0 OR, 2 XR)  
Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
SYSTEMS

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307/112 SWITCHING SYSTEMS

2 307/9.1 (2 OR, 0 XR)  
Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
SYSTEMS  
307/9.1 VEHICLE MOUNTED SYSTEMS

2 323/249 (0 OR, 2 XR)  
Class 323 : ELECTRICITY: POWER SUPPLY OR REGULATION  
SYSTEMS  
323/234 . OUTPUT LEVEL RESPONSIVE  
323/247 . Using a transformer or inductor as the final  
control device  
323/249 .. Controllably saturable

2 323/302 (0 OR, 2 XR)  
Class 323 : ELECTRICITY: POWER SUPPLY OR REGULATION  
SYSTEMS  
323/299 . INPUT LEVEL RESPONSIVE  
323/301 . Using a transformer or inductor as the final  
control device  
323/302 .. Saturable

2 324/133 (0 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PE  
R  
SE  
324/133 . Nonquantitative (e.g., hot-line indicator,  
polarity tester)

2 324/326 (0 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU  
324/326 .. For small object detection or location

2 324/532 (1 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/512 .. For fault location  
324/527 .. By applying a test signal  
324/532 ... Using time measuring

2 324/535 (1 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS

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324/512 .For fault location  
324/535 ..By time measuring

2 324/66 (1 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/66 CONDUCTOR IDENTIFICATION OR LOCATION (E.G.,  
PHASE IDENTIFICATION)

2 324/67 (0 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/66 CONDUCTOR IDENTIFICATION OR LOCATION (E.G.,  
PHASE IDENTIFICATION)  
324/67 .Inaccessible (at test point) conductor (e.g.,  
buried in wall)

2 340/310.01 (1 OR, 1 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/286.01 SYSTEMS  
340/310.01 .Signal over power line

2 340/650 (1 OR, 1 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/635 ..Condition of electrical apparatus  
340/650 ...Undesired circuit ground or short

2 361/47 (0 OR, 2 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/42 .Ground fault protection  
361/47 ..In a polyphase system

2 361/48 (2 OR, 0 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/42 .Ground fault protection  
361/47 ..In a polyphase system  
361/48 ...With more than three wires

2 361/93.1 (0 OR, 2 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/93.1 .With specific current responsive fault sensor

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2 385/24 (2 OR, 0 XR)  
Class 385 : OPTICAL WAVEGUIDES  
385/15 WITH OPTICAL COUPLER  
385/24 .Plural (e.g., data bus)

2 398/37 (1 OR, 1 XR)  
Class 398 : OPTICAL COMMUNICATIONS  
398/9 DIAGNOSTIC TESTING  
398/25 .Determination of communication parameter  
398/37 ..Amplifier or repeater operation

2 455/67.7 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
455/67.11 .Having measuring, testing, or monitoring of  
system or part  
455/67.7 ..With indication (e.g., visual or voice  
signalling, etc.)